

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/617,361
Source: IFW16
Date Processed by STIC: 09/20/2005

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 09/20/2005

PATENT APPLICATION: US/10/617,361

TIME: 10:59:37

Input Set : A:\NEB-227.ST25.txt

Output Set: N:\CRF4\09202005\J617361.raw

3 <110> APPLICANT: Morgan, Richard
 4 Walsh, Paul
 6 <120> TITLE OF INVENTION: A Novel Type II Restriction Endonuclease, BtgZI, Obtainable
 From
 7 Bacillus Thermoglucosidasius 36A And A Process For Producing The
 8 Same
 10 <130> FILE REFERENCE: NEB-227
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/617,361
 C--> 12 <141> CURRENT FILING DATE: 2003-07-10
 12 <160> NUMBER OF SEQ ID NOS: 11
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 39
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Bacillus thermoglucosidasius
 21 <400> SEQUENCE: 1
 22 cgatgagaat gcgatgttgg tggccaaaag caattatcc 39
 25 <210> SEQ ID NO: 2
 26 <211> LENGTH: 26
 27 <212> TYPE: DNA
 28 <213> ORGANISM: unknown
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: resulting cleaved DNA of SEQ ID NO:1
 33 <400> SEQUENCE: 2
 34 cgatgagaat gcgatgttgg tggcca 26
 37 <210> SEQ ID NO: 3
 38 <211> LENGTH: 26
 39 <212> TYPE: DNA
 40 <213> ORGANISM: unknown
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: primer annealed and extended through BtgZI site and adds
 extra
 44 (A) base
 46 <400> SEQUENCE: 3
 47 agaatgcgat gttggtggcc aaaaga 26
 50 <210> SEQ ID NO: 4
 51 <211> LENGTH: 45
 52 <212> TYPE: DNA
 53 <213> ORGANISM: Bacillus thermoglucosidasius
 55 <400> SEQUENCE: 4
 56 ttctttctgc gcggtcaact ttgtaccaat catacatcgc ctgag 45
 59 <210> SEQ ID NO: 5
 60 <211> LENGTH: 20
 61 <212> TYPE: DNA

62 <213> ORGANISM: unknown

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64 <220> FEATURE:
65 <223> OTHER INFORMATION: resulting cleaved DNA of SEQ ID NO:4
67 <400> SEQUENCE: 5
68 ttcttttctgc gcggtcaact                                20
71 <210> SEQ ID NO: 6
72 <211> LENGTH: 25
73 <212> TYPE: DNA
74 <213> ORGANISM: unknown
76 <220> FEATURE:
77 <223> OTHER INFORMATION: resulting cleaved DNA of SEQ ID NO:4
79 <400> SEQUENCE: 6
80 ttgtaccaat catacatcgc ctgag                                25
83 <210> SEQ ID NO: 7
84 <211> LENGTH: 25
85 <212> TYPE: DNA
86 <213> ORGANISM: unknown
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Primer annealed and extended through the BtgZI site
91 <400> SEQUENCE: 7
92 ttcttttctgc gcggtcaact ttgta                                25
95 <210> SEQ ID NO: 8
96 <211> LENGTH: 27
97 <212> TYPE: PRT
98 <213> ORGANISM: unknown
100 <220> FEATURE:
101 <223> OTHER INFORMATION: first 27 amino acids
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <222> LOCATION: (23)..(23)
107 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION: (26)..(26)
112 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
114 <400> SEQUENCE: 8
116 Met Tyr Trp Leu Leu Asp Tyr Val Thr Gln Gln Lys Val Arg Asn Asp
117 1          5          10          15
W--> 120 Ile Asn Asn Leu Ile Lys Xaa Ile Leu Xaa Ile
121          20          25
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 16
126 <212> TYPE: DNA
127 <213> ORGANISM: unknown
129 <220> FEATURE:
130 <223> OTHER INFORMATION: BtgZI cleaves the phosphodiester bond between the 10th and
11th 131      nucleotides 3' to the recognition sequence in 5'-GCGATG3' strand
132      of the DNA and between the 14th and 15th nucleotides in the
133      complement strand to produce the 4-base extension
136 <220> FEATURE:

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137 <221> NAME/KEY: misc_feature
138 <222> LOCATION: (7)..(16)
139 <223> OTHER INFORMATION: n is a, c, g, or t
141 <400> SEQUENCE: 9
W--> 142 gcgatgnnnn nnnnnn 16
145 <210> SEQ ID NO: 10
146 <211> LENGTH: 30
147 <212> TYPE: DNA
148 <213> ORGANISM: unknown
150 <220> FEATURE:
151 <223> OTHER INFORMATION: GPS North Primer
153 <400> SEQUENCE: 10
154 actttattgt catagtttag atctattttg 30
157 <210> SEQ ID NO: 11
158 <211> LENGTH: 30
159 <212> TYPE: DNA
160 <213> ORGANISM: unknown
162 <220> FEATURE:
163 <223> OTHER INFORMATION: GPS South Primer
165 <400> SEQUENCE: 11
166 ataatcctta aaaactccat ttccaccct 30

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/617,361

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 23, 24

Seq#:9; N Pos. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/617,361**

DATE: 09/20/2005

TIME: 10:59:38

Input Set : **A:\NEB-227.ST25.txt**

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16

L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0